### FARM AND GARDEN.

Norman Horses.

and endurance, weighing anywhere from one to three thousand pounds, with almost the ing that a few suggestions may do good, even to three thousand pounds, with almost the if they be of the kind which suggests the reaction of an Arabian thoroughbred in many instances, and at the same time possessing the comparative strength of an elephant.

Many of them are at work in the drays and the control of the residence is determined by the water supply.

Water is a good thing, but it is coming to be a proper in the French and other cities and other legicities.

I can say, with positive certainty, having run from rather than to and into it.
had some experience as a stock-raiser, that Cellars should be well drained and well had some experience as a stock-raiser, that these horses, now being largely imported in our western states, if properly bred and the crosses properly made, will do more in the next ten years to give the United States a high order of general purpose horses, or thouses of all work, than all the horse importations that have hitherto been made, as nearly all of our importations hitherto have been parts usually occupied. tations that have hitherto been made, as nearly all of our importations hitherto have been racing running horses, which are worthless except for gambling purposes. We have bred that class of stock, and other classes much more useful, the trotter, whose perfections as such have been unequaled by any other part of the world, until we have bred our stock down so small that we have but our stock down so small that we have but our stock down so small that we have but offers continued to the course of years may far expensel purpose or business horses that are exceed the cost of the thouse, at least not under the parts usually occupied.

Ordinarily the house that is warmest in winter is coolest and most comfortable in summer. Where little money can be spent cannot be afforded, but often a saving in the first cost is poor economy, as the increased expenditure in the course of years may far expenditure in the course of years may far expenditure of the cost of the house, at least not under the parts usually occupied.

Ordinarily the house that is warmest in winter is coolest and most comfortable in summer. Where little money can be spent to the spent to the spent to the course of years may far expenditure in the course few general purpose or business horses that are exceed the cost of the thing omitted.

produce very much the same kind of stock in our country that the Norman draft horse and the thoroughbred Arabian mare proputed in France many years, which constitutes the present Percheron stock that I have referred to, and of which our farmers and stock-raisers imported last year from Havre alone more than one hundred. The prospect up to this time this year is that our importations will double.

Our importers and dealers are now charging too much for them, but, as all new enterprises of this kind are experiments, the prices warm room, but very bad air is tolerated.

Sash, Deors and Blinds.

Sash, Deors and Blinds.

Sash, Deors and Blinds.

Sash, Deors and Blinds.

prises of this kind are experiments, the prices warm room, but very bad air is tolerated, obtained at first are much larger than when perhaps unnoticed, if it be only cool. Venthe people have become familiar with the tilation is secured in a room with many

I feel confident that there is no part of our floor in winter by a grown person soon shows stock-raising in America that has been so how uncomfortable it is, yet the children neglected during the past twenty years as the creep and lie there unnoticed. So direct past twenty years as the business horse or drafts are to be avoided. It is better to have horse of all work. I think, however, it would the room so it can be made nearly air-tight be better for our importers to import some Percheron mares as well as stallions, as upon our cheap food we can breed and raise a four year old stallion in any of our middle or western states at a cost to the farmer of not more than two hundred dollars, whilst the mindows should extend to within a foot of the same. same animal, bred and raised on the other windows should extend to within a foot of

### Relation of Water to Agriculture.

production of vegetable substances is an im-know is to introduce fresh air through a tin possibility. The presence or absence of this or wooden pipe under the floor, coming up substance determines almost entirely whether the stove, and extending up beside it and the our labors in the field of agriculture shall be stove pipe to the height of, say six feet. The crowned with success or prove a failure, air is warmed as it passes up, and the ten-Either the lack or excess of water proves dedency is to have the air passes out, instead of leterious to the growing crops of the farmer. in, at the cracks and openings. Water exists in three states or conditions, in Shade trees near the kouse are exceedingly all of which it has a very important influence desirable, but they should not be too close to on the production of farm crops. These are the house nor too thickly planted. Sunlight the solid or foozen state, the liquid state and and fresh air should not be excluded even to the gaseous or state of vapor or steam. It is secure shade. Thick hanging vines on the a law that all material substances are expand-walls are also to be avoided .- Western Rural. ed by heat and contracted by cold or by the abscence of heat. This law holds good in the case of water at all temperatures above A correspondent of the Germantown Tele about 38 degs. Fahr., at which it becomes graph writes: degs., at which it freezes. In the process of such as corn in the ear or uncracked. cial as a protection to the roots of plants that the 1st of September, when the new crop is remain the ground during winter. The many still soft and tender." small air spaces formed by the freezing make. This writer is on the eve of finding out it anon-conductor of heat; so that a few inches that the hog requires bulky food as well as tribute directly to the growth of the plants is, that it is dangerous to feed high in sumwith which the snow is in contact. A coat mer. This idea has grown out of the fact THE RIGHT WORD IN THE RIGHT ing of solid ice, on the other hand, by extituted discusses are more prevalent in warm PLACE.—A New Pocket Dictionary and Reference Book. the exhalation from the plants, if continued of disease is that concentrated food creates for any great length of time, is almost sure fever in the stomach, and the hot weather into result in the death of the plants by sufforcreases the difficulty. Cold weather carries off cation. It is evident, therefore, that no much of the unnatural heat, and thas modifies is found in its tendency to break down and fat. With grass or other green feed, given pulverize stiff or heavy soils during the win, with meal, the pig may be fattened much ter season.

plate of ice. When a thaw takes place, as in winter. - Live Stock Journal these layers of ice gradually melt, the parti-cles of soil, instead of reuniting with those to which they adhered before freezing, fall preventive of the rayages of these insects in off and crumble down into a loose, triable preventive of the ravages of these insects in off and crumble down into a loose, triable corn-fields: Soak the seed in copperas water soil. And if the surplus water is carried off twenty-four hours before planting, keeping by underdraining, the soil, which before was the water a little warm, say seventy degs, hard and cloddy, becomes a loose, light soil. Fahr. One pound of copperas in three galeasy of culture, and with increased fertility long of water to one bushel of seed. He I think there can be no doubt but that during tested it last year, and not a hill was touched. the process of freezing and thawing the water that is in the soil imparts to it more or less of its fertilizing properties. Thus ammonia, carbonic acid and other important software following the soil may be and probably are articles of food may be, and probably are, deposited in the soil, ready to supply the demands of the ensuing crop. These considerations seem to explain the beneficial effects resulting from the fall plowing of heavy as again. Then, while the corn is wet, take a stiff clay soils. Do they not also suggest or stiff clay soils. Do they not also suggest that it would be to the interest of agriculture stir till each and every grain is thickly and ists in regions where heavy soils prevail is thoroughly coated with the plaster, so as to PLAYING CARDS, CRIBBAGE thoroughly coated with the plaster, so as to BOARDS, ASSANGE HAPENAN'S.

Health and Comfort in House Building. Among our readers in country and village are many who propose building residences this season. The best advice which can be I visited several lots that were in stables at given in many cases where this is proposed Havre for export, and found them to be in is that a competent architect be employed most instances the descendants of the original that his directions be followed. Some nal Percheron, which is a horse of great size things are so often neglected by those build-

truck wagons in the French and other cities understood that in the wrong place it is a in Europe, where one of them of good average size and in good condition, will haul with absorbs unpleasant odors and bad gases. Apparent case twenty-five bales of American Wet earth gives out these things. Many discotton, which is equal to two loads of cotton cases have their cause in malarial vapors hauled in New York by two horses, or, in arising from stagnant water. Hence the first other words, is the work of four of our American truck horses.

• lected is not by nature so fixed as to do this. ican truck horses.

• lected is not by nature so fixed as to do this,
The pure-blooded "Percheron horse" is a it should be so graded that water will not recross between the thoroughbred Arabian and main near the house, especially not under it. the original "Norman draft horse;" the first The caves should be troughed, and eyen a is possessed of great fleetness and delicacy very little banking of earth against the founof form, the latter of great size and strength, dations will do much good. It is also es-which constituted the "stage stock" of France before the introduction of railroads. about the well so that the surface water may

tit for the common work of our country. wooden houses it is important that special These Percheron stallions, crossed with care be taken to prevent ingress of the exour small trotting and running mares, must treme cold or heat. The use of building produce very much the same kind of stock paper is a great help at small cost. It will

article they deal in.

A good Percheron stallion can be delivered in New York for from one thousand to fitteen hundred dollars, and pay a reasonable profit to the importer, while tee same are now selling in Illinoise from two to three thousand.

In an expensive and undesirable way. Currents of cold air flowing on the floor are noticed suffering on the part of small children. In an ordinary house, lying on the floor are flower that there is a contract to the first that is a contract to the floor and windows, but in an expensive and undesirable way.

side, would cost \$1,000 to \$1,500, as I have al-ready mentioned to import. the ceiling, which should never be less than eight feet from the floor, and better ten, and should always let down from the top as well as raise from the bottom.

One of the simplest and cheapest contri-Without the constant presence at water the vances for ventilation in winter of which we

Feeding Swine in Winter.

"During the hot summer stationary and remains so until it falls 32 months I would feed very little solid feed, freezing the law of expansion is reversed and would keep hogs upon green feed constantly, the ice that is formed occupies one-sixth to either grass, oats or rye, and feed them at one-eleventh more space than did the water regular intervals, once or twice a day, upon from which it was formed. This accounts mashed feed, either shorts, chopped oats or for the bursting of vessels by the freezing of rye, buckwheat, etc., fed in troughs. When water in them; it also explains why many fed in this way, and at the sametime allowed vegetable substances are injured by the freez-access to water and shade, hogs will bear ing of their sap-the swelling of the sap in crowding through the kot months, a very treezing ruptures or at least so strains the good time, if not the best, to take on flesh, vegetable cells that vitality is destroyed. This puts them in the best of condition for Snow, which is frozen vapor, is very benefi- corn feeding, which should commence about

of snew will protect the young plants from the cow or horse. Because pork is usually the injurious effects of the most severe cold made by feeding grain, many farmers have that ever occurs in the temperate zones, almost ceased to regard the hog as a grass-And in cases where the soil was not frozen eating animal. When farmers shall study whenthe snow fell the internal heat of the earth, the nature of the pig and feed it accordingly be sufficient to cause a vigorous growth of there will be little trouble with choiera, scurwinter grain thus protected. The snow also vy or other diseases. Both are no doubt occarries down with it when it falls certain fer easioned by errors in feeding and uncleasly tilizing substances found in the air, particul surroundings. One point mentioned in the larly ammonia, which are believed to con- above paragraph needs correction, and that cluding the air entirely, and by preventing weather; but the cause of greater prevalence water should be permitted to stand on the the effect of grain diet alone. Now the pig surface of the ground that is occupied by a should be fed in such a way that the stomach crop of winter grain. But perhaps the most will be healthy at all times, and then the beneficial effect of water in the form of ice heat will aid the growth and laying on of

cheaper in summer than fall or winter; it re-When a saturated soil freezes the ice is not quiring little food to keep up animal heat, formed in all the interseices of the soil The summer is the economical time to make where it is held while in a fluid state, pork; give plenty of clover, green rye, oats, but it is drawn together so that the ice is turnlps, beets, carrots or other green food formed in thin plates or scales, thus separate tenshed by the pig, and with this give corn ing the soil into numberless small divisions meal, ground oats, peas or any other grain, or particles, each of which is bound and and your pigs will make healthy pork, and held to its neighbor particle by a thin film or the pork cost 50 per cent, less than that made

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